PROCEEDINGS OF THE

ROYAL ENTOMOLOGICAL SOCIETY OF LONDON

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SPECIAL MEETING

WEDNESDAY, 5TH MAY, 1948, at **5.0 p.m.**

Notice is hereby given that a Special Meeting of the Society will be held at 41, Queen's Gate, South Kensington, S.W.7, on Wednesday, the fifth day of May, 1948, at 5.0 p.m., to consider and, if thought fit, pass the following proposed alterations in the Bye-Laws; subject to the adoption of these alterations, to elect an Honorary Editor.

Alteration of Bye-Laws.

Explanatory Note :—

Council are of the opinion that it may be desirable soon to elect additional Honorary Officers such as, for example, an Honorary Editor or an Honorary Librarian. The Bye-Laws in their present form do not allow for such Officers, and therefore need to be altered. The necessary alterations could be either mandatory or permissive. In the former case there would be no option but to elect further specified Officers, whose duties would need to be defined, as are those of the existing Officers, and whose offices must be filled and could not be abolished without further alteration of the Bye-Laws. To avoid this, the proposed alterations which follow are drawn up in such a way that additional Officers, never exceeding two, can be elected, and their offices terminated as the need arises, without alteration of the Bye-Laws. The Chapters affected are III, IV, VIII, X (4), XI (5) and (6) and XIII, and the effect of the new Bye-Laws will be that election of additional Honorary Officers is at the Annual Meeting as for, and together with, other Officers, or by Special Meeting in accordance with the Bye-Laws, but in either case without adding to the total number of Officers and Council. Certain consequential changes in the duties of the Registrar, etc., are taken into account.

Consideration of the proposed alterations has exposed certain other inconsistencies and ambiguities in the Bye-Laws which it seems desirable to take this opportunity to correct, namely :—

Chapter V, IX, X (3), XVI, XVII—The alterations are little more than the removal of inconsistencies and misprints.

Chapter XII—The alteration brings the Bye-Laws into line with already accepted Library custom.

Chapters XIV, XVIII—The alterations again bring the Bye-Laws into accord with practice, and in addition introduce a clause under which the general body of Fellows can propose the election of an Honorary Fellow or a Special Life Fellow.

Chapter XXV—The present Bye-Law is ambiguous in respect of the definition of the notice required to be given of any intended alteration to the Bye-Laws. The new Bye-Law removes this ambiguity.

The proposed alterations are as follows :—

CHAPTER III. *Management.*

§1. *Delete* §1 *and substitute :—*

"The affairs of the Society shall be conducted by a Council consisting of the Honorary Officers hereinafter mentioned and of Ordinary Members of Council to be chosen annually from among the Fellows, provided always that the total number of such Honorary Officers and Ordinary Members of Council (including Vice-Presidents) shall at no time exceed seventeen. No Fellow shall be eligible as an Ordinary Member of Council until he shall have been a Fellow for three consecutive years, nor shall any Fellow, except as provided in Chapter IV, serve for more than three years successively. Five shall be a quorum."

CHAPTER IV. *Honorary Officers.*

Delete whole Chapter and substitute :—

"The Officers of the Society shall consist of a President, a Treasurer, a Secretary and such other Officers, not exceeding two, as may from time to time be deemed necessary by Council and recommended for election at the Annual Meeting or by motion submitted in accordance with Chapter XXII of the Bye-Laws. The Officers shall be chosen annually. No Officer shall be President for more than two years successively or hold other Office for more than ten years consecutively."

CHAPTER V. *Officials.*

§1. Line 1, *for* "Officer" *read* "Official".

§2. Line 6, *for* "officers" *read* "Officers".

CHAPTER VIII. *Vice-Presidents.*

§1. *Delete* §1 *and substitute :—*

"The three Vice-Presidents shall be appointed annually by the President from amongst the Ordinary Members of Council. Such appointments shall be declared at the Ordinary Meeting next after the election of the President in every year. No Fellow shall be a Vice-President for more than two years successively."

CHAPTER IX. *Treasurer.*

§4. Line 9, *delete* "he" *and substitute* "the Registrar".

CHAPTER X. *Secretary.*

§3. Line 3, *delete* "the General" *and substitute* "all".

§4. *Delete* §4 *and substitute :—*

"The Secretary shall act as Librarian and Editor of the Society's publications except in so far as these duties may be discharged by other Officers appointed for their performance under Chapters IV and XIII of these Bye-Laws."

CHAPTER XI. *Registrar.*

B. *Secretarial Duties.*

§5. Line 1, after "Subject to the general direction of the Secretary" *add* "or other responsible Honorary Officer."

C. *Library Duties.*

§6. Line 1, after "Subject to the general direction of the Secretary" *add* "or other responsible Honorary Officer".

CHAPTER XII. *Library Regulations.*

§1. *Delete* § 1 (*a*) *and substitute :—*

"10 a.m. to 5 p.m. on Mondays to Fridays inclusive, except on Meeting days when the Library shall be open until the end of the meeting."

CHAPTER XIII. *Election of Council.*

§1. *Delete* §1 *and substitute :—*

"The Council for the time being shall annually cause to be prepared for the year ensuing a list which shall contain the names of such Fellows, being eligible, as they shall recommend to be President, Treasurer, and Secretary, and other Officers (not exceeding two) as they deem necessary for the work of the Society; and also the names of such Fellows as they shall recommend to be re-elected, and of other Fellows to be elected into the Council; provided always that the total of all such Fellows recommended as Officers and Ordinary Members of Council shall not exceed seventeen."

CHAPTER XIV. *Election of Fellows.*

§2. Line 4, *delete* "balloted for" *and substitute* "elected or not".

CHAPTER XVI. *Withdrawing and Removal of Fellows.*

§2. Line 6, *for* "special" *read* "Special".

CHAPTER XVII. *Privileges of Fellows.*

§1. Line 2, *delete* "General".
Line 4, *delete* "General" *and substitute* "Ordinary".

CHAPTER XVIII. *Honorary Fellows.*

§1. *Delete* §1 and *substitute :—*

"The election of Honorary Fellows shall be by Council on a motion submitted by a member of Council, or on the proposal of not less than six Fellows submitted in writing to the Secretary; any person elected an Honorary Fellow shall be liable to be removed in the like form and manner, and be subject to the same rules and restrictions, as an Ordinary Fellow."

CHAPTER XXV. *Alteration of the Bye-Laws.*

§1. *Delete* §1 *and substitute :—*

"Any of the Bye-Laws of the Society may at any time be repealed or altered or others adopted in lieu thereof at a Special Meeting of the Society convened in accordance with the provisions of Chapter XXII after the intended repeal or alteration has been read at three Ordinary Meetings of the Society."

Dated this 14th day of April, 1948.

By order of the Council.

N. D. RILEY,
Honorary Secretary.

ORDINARY MEETING.

WEDNESDAY, 5TH MAY, 1948, at 5.30 p.m.

AGENDA

1. Confirmation of the Proceedings of the Ordinary Meeting held on 7th April, 1948.

2. Recommendations of candidates for Fellowship.

3. Announcement of election of new Fellows.

4. Additions to the Library :—

Presented.

Zumpt, F. *Die Tsetsefliegen, ihre Erkennungsmerkmale, Lebensweise und Bekämpfung.* 8vo. Jena, 1936. [The Author.]

Osborn, H. *Fragments of entomological history.* Parts I and II. 8vo. Colombus, Ohio, 1937–1946. [The Publishers.]

Leighton, B. V. The Butterflies of Washington. *Univ. Wash. Publ. Biol.* **9** : 47–63, 1946. [The Publishers.]

Hepner, L. W. A revision of the tribe Scaphytopini (Homoptera, CICADELLIDAE) in North America. *Kans. Univ. Sci. Bull.* 31 : 413–541, 1947. [The Publishers.]

Strandtmann, R. W. *A review of the North American species of Philanthus, north of Mexico* (*Hymenoptera* : SPHECIDAE). 8vo. Columbus, Ohio, 1946. [The Publishers.]

Dugat, M. *The sky-scraper hive.* 8vo. London, [1948]. [The Publishers.]

Purchased.

Wood, J. G. *Insects at home.* 8vo. London, 1892.

Paulian, R. *Coléoptères Scarabéides de l'Indochine.* 1. 8vo. Paris, 1945. (Faune de l'Empire Français. Vol. 3.)

Villiers, A. *Coléoptères Cerambycides de l'Afrique du Nord.* 8vo. Paris, 1946. (Faune de l'Empire Français. Vol. 5.)

Jeannel, R. *Coléoptères Carabiques de la Région Malgache.* 1. 8vo. Paris, 1946. (Faune de l'Empire Français. Vol. 6.)

In addition, separates have been presented by Dr. A. M. Massee, Mr. W. J. Le Quesne, Mr. A. J. A. Woodcock, Dr. H. B. Williams, the Royal Meteorological Society, the Commonwealth Institute of Entomology, Dr. V. B. Wigglesworth, Prof. G. D. Hale Carpenter, Mr. E. F. Gilmour, Mr. A. H. Strickland, Mr. R. C. Rainey, the Council for Scientific and Industrial Research, Australia, the Carnegie Museum, Pittsburgh, the U.S. Department of Agriculture, Prof. F. Silvestri, the American Entomological Society, Mr. R. G. Webster Kay, Mr. H. E. Hammond, Mr. E. S. Brown, Prof. G. A. Livadas and M. Dalibor Povolny.

5. Admission of Fellows.

6. Communications.

(1) **The President on behalf of Prof. T. W. Kirkpatrick.**

A note on night feeding of a Papilionid larva in Trinidad.

(2) **Dr. W. H. Thorpe.**

Lorenz's concept of Instinct.

[Abstract.]

There has long been a tendency for the concept of instinct to fall into disrepute among biologists. This is easily understandable for the term has often been used so loosely as to be almost meaningless and many biologists have felt that such meaning as the word contained could be more easily and accurately expressed in other terms such as reflex, taxis and kinesis. Entomologists, confronted as they usually are with behaviour patterns of the most complex type, have been much less ready than other biologists to give up the use of the word—indeed have found it impossible honestly to do so; they have thus been in the unsatisfactory position of being saddled with a concept which they could neither define accurately nor afford to relinquish. The clarification of the concept of instinct which has taken place in recent years, mainly through the work of Lorenz in Austria, has already resulted in some notable advances in the understanding of complex behaviour patterns in birds and other vertebrates and has provided a great stimulus to their experimental analysis. While in a sense only a beginning, the work of Lorenz and his associates does undoubtedly represent a great advance on both the theoretical and experimental sides. It is no less fundamental for the study of insect behaviour than it is for that of birds, and it thus suggests many attractive future lines of investigation for entomologists. It is from this point of view particularly that it will be discussed.

If circumstances permit tea will be served in the Library before the meeting.

NOTICES

A card index of Fellows' addresses arranged **on a geographical basis** is now available for the use of Fellows in the Society's Rooms. Addresses in Great Britain are grouped under counties; elsewhere under Dominions, Colonies, Foreign States, etc.

ADMISSION OF FELLOWS

Any Fellow who has not been formally admitted to the Society under Chapter XIV, Section 4 of the Bye-Laws and attends the meeting on 5th May, 1948, is requested to inform the Society before 5.15 p.m. on that date.

PROCEEDINGS OF THE ORDINARY MEETING HELD ON 7TH APRIL, 1948.

Dr. C. B. Williams, M.A., President, in the Chair.

Present, 74 Fellows, 13 Visitors.

The minutes of the Special Meeting and of the Ordinary Meeting held on 3rd March, 1948, were confirmed and signed by the President.

The President, on behalf of the Society, extended a welcome to Professor W. Roepke, of the Agricultural College of the University, Wageningen, Holland, a distinguished Fellow of the Society now on a visit to London.

The names of the following candidates for election were read:

For the first time: Monsieur J. Carayon, Dr. es-Sc., R. P. Dales, H. E. Goto, C. Koch, P. W. Oman, Ph.D., V. W. Philpott, G. C. Warrick, and K. P. Whitehorn.

For the second time: H. K. Bagnall-Oakeley, M.A., J. W. M. Beament, M.A., Ph.D., W. A. L. David, M.A., Ph.D., Angus Fraser, C. M. Jones, F. R. Jones, P. Hunter Jones, B.Sc., H. R. Last, A. D. Lees, Ph.D., N. C. Pant, M.Sc., M. G. M. Pryor, Ph.D., and C. S. Wood Baker, M.Sc., Ph.D.

The Secretary read the names of the following newly elected Fellows of the Society: J. S. Ball, B.Sc., Brasenose College, Oxford; Joyce van Konynenburg, Hawthorn House, Spalding, Lincs; A. S. G. Mardon, M.R.I.P.H.H., 110, Church Lane, London, S.W.17; K. G. Smith, 47, Delamere Road, Hall Green, Birmingham, 28; Lt.-Col. Charles Stockley, Stonehouse, Nyeri Station, Kenya; T. V. Venkatraman, Division of Entomology, Indian Agricultural Research Institute, New Delhi, Indian Union; C. Weightman, Low Shilford, Stocksfield, Northumberland.

Thanks were voted to donors of gifts to the Library since the last meeting.

Lt.-Col. J. H. Cater, Mr. R. A. Cumber, Mr. R. E. Ellison, Mr. T. A. Lloyd, Dr. M. G. Ramdas Menon, Professor W. Roepke, and Mr. T. E. Woodward signed the Obligation Book and were admitted Fellows of the Society.

A communication was made by Dr. J. S. Kennedy, an abstract of which appeared on page 12.

In the discussion which followed, Dr. Gunn supported Dr. Kennedy's views on the importance of the effects of wind and sun on the direction of migration of locust swarms and on the necessity of making exact observations on track and course of the insects as well as wind velocity. He said that the fact that migration could continue in cloudy conditions in no way affected the probability that locusts commonly use the sun in a light-compass reaction. In human beings there was multiple assurance of the ability to stand upright, using various receptors such as proprioceptors, pressure receptors, eyes, and labyrinths, each of which was adequate by itself. There was no reason why an insect should not use the light-compass reaction at one moment and an optical reaction to wind at another. There might well be components in the orientation of migrating insects which had not yet been dreamt of, but exact observations would probably show that known types of behaviour were very much used, and pessimism was uncalled for.

The President, Captain R. A. Davies, Mr. C. N. Hawkins, and Dr. R. C. Rainey also took part in the discussion.

In addition, Mr. R. L. E. Ford exhibited a longitudinal section of a wooden post showing over 120 cells of the leaf-cutter bee *Megachile willughbiella* Kirby.

N. D. RILEY, *Honorary Secretary.*

The next meeting will be held on 2nd June, at 5.30 p.m.

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